

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM WQ 2014-0153-DWQ-R5304
FOR
CALIFORNIA DEPARTMENT OF TRANSPORTATION
WESTLEY SAFETY ROADSIDE REST AREA WWTP
STANISLAUS COUNTY

This Monitoring and Reporting Program (MRP) describes requirements for monitoring a wastewater treatment system at the Westley Safety Roadside Rest Area (SRRA) WWTP. This MRP is issued pursuant to Water Code section 13267. The Discharger shall not implement any changes to this MRP unless and until a revised MRP is issued by the Regional Water Quality Control Board, Central Valley Region (Central Valley Water Board) or Executive Officer.

Water Code section 13267 states, in part:

“In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste within its region, or any citizen or domiciliary, or political agency or entity of this state who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge, waste outside of its region that could affect the quality of waters within its region shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports and shall identify the evidence that supports requiring that person to provide the reports.”

Water Code section 13268 states, in part:

“(a) Any person failing or refusing to furnish technical or monitoring program reports as required by subdivision (b) of section 13267, or failing or refusing to furnish a statement of compliance as required by subdivision (b) of section 13399.2, or falsifying any information provided therein, is guilty of a misdemeanor and may be liable civilly in accordance with subdivision (b).

(b)(1) Civil liability may be administratively imposed by a regional board in accordance with article 2.5 (commencing with section 13323) of chapter 5 for a violation of subdivision (a) in an amount which shall not exceed one thousand dollars (\$1,000) for each day in which the violation occurs.”

The Westley Safety Roadside Rest Area WWTP discharge is regulated by the Notice of Applicability (NOA) to Water Quality Order 2014-0153-DWQ and is owned and operated by California Department of Transportation (Caltrans). Pursuant to Water Code section 13267, the Discharger shall implement this MRP and submit the monitoring reports described herein. The reports are necessary to ensure that the Discharger complies with the NOA and General Order.

All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. The name of the sampler, sample type (grab or composite), time, date, location, bottle type, and any preservative used for each sample shall be recorded on the sample chain of custody form. The chain of custody form must also contain all custody information including date, time, and to whom samples were relinquished. If composite samples are collected, the basis for sampling (time or flow weighted) shall be approved by Central Valley Water Board staff.

Field test instruments (such as those used to test pH, dissolved oxygen, and electrical conductivity) may be used provided that they are used by a State Water Resources Control Board, Environmental Laboratory Accreditation Program certified laboratory, or

1. The user is trained in proper use and maintenance of the instruments,
2. The instruments are field calibrated prior to monitoring events at the frequency recommended by the manufacturer,
3. Instruments are serviced and/or calibrated by the manufacturer at the recommended frequency, and
4. Field calibration reports are maintained and available for at least three years.

Laboratory analytical procedures shall comply with the methods and holding times specified in the following (as applicable to the medium to be analyzed):

- *Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater (USEPA);*
- *Test Methods for Evaluating Solid Waste (USEPA);*
- *Methods for Chemical Analysis of Water and Wastes (USEPA);*
- *Methods for Determination of Inorganic Substances in Environmental Samples (USEPA);*
- *Standard Methods for the Examination of Water and Wastewater (APHA/AWWA/WEF);*
and
- *Soil, Plant and Water Reference Methods for the Western Region (WREP 125).*

Approved editions shall be those that are approved for use by the United States Environmental Protection Agency (EPA) or the California Department of Public Health's Environmental Laboratory Accreditation Program (ELAP). The Discharger may propose alternative methods for approval by the Executive Officer. Where technically feasible, laboratory reporting limits shall be lower than concentrations that implement applicable water quality objectives/limits for the constituents to be analyzed.

A glossary of terms used in this MRP is included on the last page.

POND MONITORING

INFLUENT FLOW MONITORING

Influent flow shall be monitored as specified in Table 1, in units of gallons per day. Meter locations are upstream of the treatment system Pond 1 at the location shown in Attachment C. Meters may be read monthly to calculate the average daily flow for the month.

Table 1 Influent flow monitoring

Parameter	Units	Type of Sample	Monitoring Frequency	Reporting Frequency
Influent Flow Rate	gpd	Meter Observation, calculation	Daily	Quarterly

WASTEWATER POND MONITORING

All wastewater and treated wastewater storage ponds (lined and unlined) shall be monitored as specified below.

Table 2 Wastewater pond monitoring

Parameter	Units	Type of Sample	Monitoring Frequency	Reporting Frequency
Freeboard (note 1)	feet	Observation	Monthly	Quarterly
Berm condition	--	Observation	Monthly	Quarterly
Seepage (note 2)	--	Observation	Monthly	Quarterly
Odors	--	Observation	Monthly	Quarterly
Dissolved Oxygen (note 3)	mg/L	Grab	Monthly	Quarterly
Pond Liner Condition (note 4)	--	Observation	Every 5 years	Every 5 Years

Table notes:

1. Freeboard shall be measured vertically from the surface of the pond water to the lowest elevation of the surrounding berm to the nearest 0.1 feet.
2. Pond containment berms shall be observed for signs of seepage or surfacing water along the exterior toe. If surfacing water is found, then a sample shall be collected and tested for total coliform organisms and total dissolved solids.
3. Dissolved oxygen shall be monitored at each pond that contains at least one foot of standing water. The report shall state how much water was in the pond if dissolved oxygen was not monitored. Samples shall be collected opposite the pond inlet at a depth of one foot.
4. The pond liner condition and a determination of whether the liner is leak-free shall be performed for each pond lined with a geosynthetic liner, starting no later than five years from the date of the Pond Liner Construction Quality Assurance Report.

EFFLUENT MONITORING

Effluent samples shall be collected from Pond 2 prior to disposal to Pond 3 or other means of disposal (e.g. subsurface disposal) as shown in Attachment C. At a minimum, the Discharger shall monitor effluent quality as specified here in Table 3.

Table 3 Effluent monitoring

Parameter	Units	Type of Sample	Monitoring Frequency	Reporting Frequency
BOD ₅	mg/L	Grab	Monthly	Quarterly
Zinc	µg/L	Grab	Quarterly	Quarterly
Phenol	µg/L	Grab	Quarterly	Quarterly
Formaldehyde	µg/L	Grab	Quarterly	Quarterly

SOLIDS DISPOSAL MONITORING

The Discharger shall report the handling and disposal of all solids (e.g., screenings, grit, sludge, biosolids, etc.) generated at the wastewater system. Records shall include the name/contact information for the hauling company, the type and amount of waste transported, the date removed from the wastewater system, the disposal facility name and address, and copies of analytical data required by the entity accepting the waste. In those years when solids handling or disposal occurs, records shall be submitted as part of that year's annual monitoring report.

GROUNDWATER MONITORING

Due to this being a low-flow discharge, expected to attenuate with depth, and the depth to water being greater than 100 feet bgs, groundwater monitoring is not required at this time.

REPORTING

All monitoring reports should be converted to a searchable Portable Document Format (PDF) and submitted electronically. Documents that are less than 50MB should be emailed to centralvalleysacramento@waterboards.ca.gov.

Documents that are 50 MB or larger should be transferred to a CD, DVD, or flash drive and mailed to the following address:

Central Valley Regional Water Quality Control Board
ECM Mailroom
11020 Sun Center Drive, Suite 200
Rancho Cordova, CA 95670

To ensure that your submittal is routed to the appropriate staff person, the following information should be included in the body of the email or transmittal sheet:

Attention: Compliance/Enforcement Section
California Department of Transportation (Caltrans), Westley SRRA WWTP
Stanislaus County
Place ID: 820261

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., effluent, solids, etc.), and reported analytical or visual inspection results are readily discernible. The data shall be summarized to clearly illustrate compliance with the General Order and NOA as applicable. The results of any monitoring done more frequently than required at the locations specified in the MRP shall be reported in the next regularly scheduled monitoring report and shall be included in calculations as appropriate.

Monitoring information shall include the method detection limit (MDL) and the Reporting limit (RL) or practical quantitation limit (PQL). If the regulatory limit for a given constituent is less than the RL (or PQL), then any analytical results for that constituent that are below the RL (or PQL) but above the MDL shall be reported and flagged as estimated. For a Discharger conducting any of its own analyses, reports must be signed and certified by the chief of the laboratory.

A. QUARTERLY MONITORING REPORTS

Quarterly reports shall be submitted to the Regional Water Board on the **first day of the second month after the quarter ends** (e.g., the January-March Quarterly Report is due by May 1st). The reports shall bear the certification and signature of the Discharger's authorized representative. At a minimum, the quarterly reports shall include:

1. Results of all required quarterly monitoring. Data shall be organized by the associated monitoring sections (e.g., Flow Monitoring, Effluent Monitoring, etc.) and presented in tabular format.
2. A comparison of monitoring data to the discharge specifications, flow limit, and effluent limits.
3. A disclosure of any violations of the NOA and/or General Order requirements and an explanation of corrective actions.
4. If requested by staff, copies of laboratory analytical report(s) and chain of custody form(s).

B. ANNUAL REPORTS

Annual Reports shall be submitted to the Regional Water Board by **February 1st following the monitoring year**. The Annual Report shall include the following:

1. Tabular and graphical summaries of all monitoring data collected during the year.
2. An evaluation of the performance of the wastewater treatment system, including discussion of capacity issues, nuisance conditions, system problems, and a

forecast of the flows anticipated in the next year. A flow rate evaluation, as described in the General Order (Provision E.2.c), shall also be submitted if required.

3. A discussion of compliance and the corrective action taken, as well as any planned or proposed actions needed to bring the discharge into compliance with the NOA and/or General Order.
4. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program.
5. Every five years after the issuance of this NOA, the report shall include an evaluation of the pond liner condition and test results that determine whether the pond liner is leak-free. The report shall include procedures for replacement or repair of the liner when a leak is detected.
6. The name and contact information for the wastewater operator responsible for operation, maintenance, and system monitoring.

A letter transmitting the self-monitoring reports shall accompany each report. The letter shall clearly indicate the submitting Discharger's name, facility or site name, county, monitoring period, and type of report (i.e., monthly, quarterly, or annual). The letter shall include a discussion of any requirement violations during the reporting period and actions taken or planned for correcting noted violations, such as operation or facility modifications. If the discharger has previously submitted a report describing corrective actions and/or a time schedule for implementing the corrective actions, reference to the previous correspondence will be satisfactory. Pursuant to the Standard Provisions and Reporting Requirements, the transmittal letter shall contain a statement by the Discharger or its authorized agent, under penalty of perjury, that to the best of the signer's knowledge, the report is true, accurate, and complete.

The Discharger shall implement the above monitoring program as of the date of the Order, pending Central Valley Water Board approval of the *Construction Completion Report* for the new WWTP system pursuant to Provision 5 of this NOA.

I, PATRICK PULUPA, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of a Monitoring and Reporting Program issued by the California Regional Water Quality Control Board, Central Valley Region on 9 July 2019.

Ordered by: original signed by Robert Busby for
PATRICK PULUPA, Executive Officer

GLOSSARY

BOD5	Five-day biochemical oxygen demand
CaCO3	Calcium carbonate
DO	Dissolved oxygen
EC	Electrical conductivity at 25° C
FDS	Fixed dissolved solids
NTU	Nephelometric turbidity unit
TKN	Total Kjeldahl nitrogen
TDS	Total dissolved solids
TSS	Total suspended solids
Continuous	The specified parameter shall be measured by a meter continuously.
Daily	Every day except weekends or holidays.
Weekly	Once per week.
Monthly	Once per calendar month.
Quarterly	Once per calendar quarter.
Semiannually	Once every six calendar months (i.e., two times per year) during non-consecutive quarters.
Annually	Once per year.
bgs	below ground surface
gpd	Gallons per day
MGD	Million gallons per day
mg/L	Milligrams per liter
mL/L	Milliliters [of solids] per liter
MPN/100 mL	Most probable number [of organisms] per 100 milliliters
MTF	Multiple tube fermentation
µg/L	Micrograms per liter
µmhos/cm	Micromhos per centimeter
USEPA	United States Environmental Protection Agency